

Supplementary material

Table S1. Fatty acid composition (% of total FA, mean \pm S.D., $n=9$) in Canestrato cheeses curdled using the kiwifruit aqueous extract (*cK*), microbial rennet (*cH*), and traditional calf rennet (*cT*).

	<i>cK</i>	<i>cH</i>	<i>cT</i>
C4:0	1.94 \pm 0.04 ^a	1.71 \pm 0.02 ^b	1.60 \pm 0.07 ^b
C6:0	2.68 \pm 0.06 ^a	2.35 \pm 0.04 ^b	2.39 \pm 0.02 ^b
C8:0	2.79 \pm 0.05 ^b	2.71 \pm 0.32 ^b	2.51 \pm 0.02 ^a
C10:0	7.87 \pm 0.04 ^b	7.76 \pm 0.09 ^b	7.28 \pm 0.04 ^a
C11:0	0.09 \pm 0.01 ^a	0.09 \pm 0.01 ^a	0.07 \pm 0.01 ^b
C12:0	4.43 \pm 0.05 ^b	4.31 \pm 0.03 ^a	4.28 \pm 0.02 ^a
C13:0	0.11 \pm 0.01	0.14 \pm 0.02	0.13 \pm 0.01
C14:0	10.88 \pm 0.23 ^a	11.83 \pm 0.10 ^b	11.06 \pm 0.03 ^a
C15:0 <i>iso</i>	0.31 \pm 0.02	0.34 \pm 0.02	0.33 \pm 0.02
C15:0 <i>anteiso</i>	0.53 \pm 0.03 ^a	0.60 \pm 0.02 ^b	0.54 \pm 0.04 ^a
C15:0	1.23 \pm 0.04	1.22 \pm 0.03	1.27 \pm 0.03
C16:0	26.15 \pm 0.17	26.41 \pm 0.26	26.71 \pm 0.03
C17:0	0.72 \pm 0.04 ^a	0.81 \pm 0.02 ^b	0.82 \pm 0.02 ^b
C18:0	9.33 \pm 0.07 ^a	9.78 \pm 0.23 ^b	9.85 \pm 0.08 ^b
C20:0	0.30 \pm 0.01	0.27 \pm 0.02	0.31 \pm 0.03
C21:0	0.09 \pm 0.01	0.11 \pm 0.01	0.10 \pm 0.01
C22:0	0.16 \pm 0.01 ^a	0.18 \pm 0.01 ^{ab}	0.21 \pm 0.01 ^b
C23:0	0.10 \pm 0.01	0.09 \pm 0.01	0.09 \pm 0.00
C24:0	0.09 \pm 0.01	0.10 \pm 0.01	0.10 \pm 0.00
C14:1	0.42 \pm 0.02	0.43 \pm 0.02	0.41 \pm 0.02
C15:1	0.01 \pm 0.00	0.01 \pm 0.00	0.01 \pm 0.00
C16:1	1.19 \pm 0.02 ^b	1.11 \pm 0.05 ^a	1.10 \pm 0.01 ^a
C16:1 <i>trans</i>	0.20 \pm 0.02	0.20 \pm 0.01	0.23 \pm 0.02
C16:1 n-5	0.17 \pm 0.01	0.16 \pm 0.01	0.13 \pm 0.02
C17:1	0.32 \pm 0.02	0.30 \pm 0.01	0.30 \pm 0.01
C18:1 <i>cis9</i>	16.79 \pm 0.13	16.84 \pm 0.06	16.87 \pm 0.05
C18:1 <i>trans9</i>	0.24 \pm 0.02 ^a	0.31 \pm 0.02 ^b	0.30 \pm 0.01 ^b
C18:1 <i>cis11</i>	2.62 \pm 0.06 ^b	2.56 \pm 0.08 ^b	2.11 \pm 0.02 ^a
C18:1 <i>trans11</i>	0.49 \pm 0.02	0.57 \pm 0.02	0.51 \pm 0.01
C20:1 n-9	0.04 \pm 0.00	0.03 \pm 0.00	0.05 \pm 0.01
C22:1 n-9	0.03 \pm 0.01	0.03 \pm 0.01	0.02 \pm 0.01

C24:1 n-9	0.02 ± 0.01	0.04 ± 0.00	0.02 ± 0.00
C16:3 n-4	0.50 ± 0.02 ^b	0.41 ± 0.02 ^a	0.49 ± 0.02 ^b
C18:2 <i>cis9 cis12</i>	1.63 ± 0.03 ^b	1.33 ± 0.02 ^a	1.62 ± 0.07 ^b
C18:2 <i>trans9 trans12</i>	0.70 ± 0.02	0.71 ± 0.02	0.67 ± 0.01
C18:3 <i>cis6 cis9 cis12</i>	0.05 ± 0.01 ^b	0.02 ± 0.01 ^a	0.04 ± 0.01 ^b
C18:3 <i>cis9 cis12 cis15</i>	1.26 ± 0.04	1.30 ± 0.02	1.28 ± 0.03
C20:2 n-6	0.01 ± 0.00	0.01 ± 0.00	0.02 ± 0.00
C20:3 n-6	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.00
C20:3 n-3	0.01 ± 0.00	0.02 ± 0.00	0.02 ± 0.00
C20:4 n-6	0.11 ± 0.02 ^b	0.07 ± 0.01 ^a	0.11 ± 0.01 ^b
C20:5 n-3	0.09 ± 0.01 ^{ab}	0.07 ± 0.01 ^a	0.11 ± 0.01 ^b
C22:2	0.02 ± 0.00	0.03 ± 0.00	0.02 ± 0.00
C22:6 n-3	0.05 ± 0.01 ^b	0.02 ± 0.01 ^a	0.05 ± 0.01 ^b
ΣSFA	69.81 ± 0.21 ^a	70.83 ± 0.22 ^b	69.67 ± 0.11 ^a
ΣMUFA	22.54 ± 0.10 ^b	22.59 ± 0.12 ^b	22.07 ± 0.06 ^a
ΣPUFA	4.48 ± 0.06 ^b	4.02 ± 0.05 ^a	4.47 ± 0.08 ^b
Σn-3	1.42 ± 0.05	1.42 ± 0.02	1.46 ± 0.03
Σn6	2.54 ± 0.05 ^b	2.16 ± 0.04 ^a	2.49 ± 0.08 ^b
Σn6/Σn3	1.79 ± 0.07 ^b	1.52 ± 0.04 ^a	1.71 ± 0.08 ^b
IA	2.80 ± 0.04 ^a	2.98 ± 0.01 ^b	2.89 ± 0.01 ^{ab}
IT	2.57 ± 0.03 ^a	2.78 ± 0.01 ^b	2.76 ± 0.02 ^b
DFA	36.36 ± 0.15	36.39 ± 0.25	36.39 ± 0.15
OFA	41.46 ± 0.20	42.54 ± 0.22	42.05 ± 0.05
H/H	0.47 ± 0.005	0.46 ± 0.002	0.47 ± 0.002

^{a, b} Different letters indicate statistically significant differences at p<0.05.

Table S2. Unstandardized and standardized coefficients of canonical discriminant functions.

Compound	Unstandardized coefficients		Standardized coefficients	
	F1	F2	F1	F2
Coumaric acid	1080.211	-30.733	18.991	-0.540
pH	-28.163	14.595	-2.099	1.088
Catechin	15.916	34.564	1.887	4.098
Cholesterol	153.826	-7.410	3.864	-0.186

Stigmasterol	149.580	15.544	17.678	1.837
K	97.677	-97.606	2.368	-2.367
Fe	27.312	-21.583	2.962	-2.341
Cu	26.154	9.389	2.857	1.025
C4:0	-75.510	326.130	-2.179	9.410
C23:0	8.495	109.281	0.465	5.980
C24:0	129.097	106.189	8.638	7.105
C20:1 n-9	14.496	268.016	0.933	17.253
C18:2 <i>cis9 cis12</i>	362.302	-276.627	11.126	-8.495
C18:2 <i>trans9 trans12</i>	283.861	-126.202	7.333	-3.260
C20:5 n-3	66.242	27.839	5.228	2.197
C22:2	-42.870	-62.194	-4.420	-6.413
C22:6 n-3	37.334	2.585	5.951	0.412
IA	586.588	-1598.943	9.244	-25.197
IT	-276.281	2937.267	-2.261	24.043
Costant	1756.559	2413.584		

Bold values indicate the most discriminative variables.

Table S3. Classification matrix results using LDA discriminant functions.

		<i>Predicted Group Membership</i>				
			<i>cK</i>	<i>cH</i>	<i>cT</i>	<i>Total</i>
Original	Count	<i>cK</i>	9	0	0	9
		<i>cH</i>	0	9	0	9
		<i>cT</i>	0	0	9	9
	%	<i>cK</i>	100	0	0	100
		<i>cH</i>	0	100	0	100
		<i>cT</i>	0	0	100	100
With cross-validation	Count	<i>cK</i>	9	0	0	9
		<i>cH</i>	0	9	0	9

	cT	0	0	9	9
%	cK	100	0	0	100
	cH	0	100	0	100
	cT	0	0	100	100
